APPENDIX I
CIRCULAR LETTER OF BANK INDONESIA
NUMBER 17/31/DPSP DATED 13 NOVEMBER 2015
CONCERNING
OPERATIONS OF SECURITIES ADMINISTRATION
THROUGH BANK INDONESIA-SCRIPLESS SECURITIES
SETTLEMENT SYSTEM

INFRASTRUCTURE SPEFICIFICATION OF
BI-SSSS PARTICIPANT PLATFORM

1. Server

    Minimum specifications for the server based on the numbers of connection between client and web application are as follows:

Component	Specification		
	Connection up to 500	Connection 500 up to 1000	Connection 1000 up to 2000
Processor	One quad-core Intel Xeon 3 Ghz or equivalent	One six-core Intel Xeon or equivalent	Two six-core Intel Xeon or equivalent
Random Access Memory (RAM)	6 Gigabyte (GB)	16 GB	
Hard Disc	2 x 146 GB (RAID1)		2 x 256 GB (RAID1)
Operating System	Windows 2003 or 2008 R2 Server x64 (64-bit) Standard Edition		
RDBMS software	Recommended to use Oracle 11gR2 or: 1. Oracle XE 2. Oracle Standard Edition One 3. Oracle Standard edition 4. Oracle Enterprise edition		
Web server software	Tomcat		
Other software	Java 6		

2. Workstation

    Minimum specifications of workstation are as follows:

HARDWARE	
Processor	Minimum Intel Core i5-4690 Processor (3.90 GHz, 6MB cache)
Chipset	Minimum Intel Q87 Express Chipset
RAM	Minimum 8 GB with type of DDR3 1600 Mhz
Hard Disc	Minimum 500 GB with interface SATA 3GB/s and speed of 7200 RPM
Graphics	Minimum Intel HD Graphics 4600
Monitor	TFT LCD flat panel analog with a minimum size of 21" wide with resolution recommended 1366 x 768
Optical Disc Drive	DVD-RW Drive Internal
Ethernet	Gigabit Ethernet
Keyboard	Wired Standard USB keyboard
SOFTWARE	
Operating System	Microsoft Windows 7 Pro (OEM preinstalled) 64x
Internet Browser	Microsoft Internet Explorer 10

Other...

Other software	a. Installer Public Key Infrastucture (PKI) b. Antivirus software recommended for each workstation that will be used for communications with BI-RTGS System c. Java Runtime Environment 1.7.0_45 version d. Safenet Authentication Client 8.1 Service Pack 2

3.   Database Specifications

Specification and Limitation	Express Edition	Standard Edition One	Standard Edition	Enterprise Edition
Max Processor	1 CPU	2 Sockets	4 Sockets	Without Limit
RAM	1 GB	OS Max	OS Max	OS Max
Database Size	4 GB	Without Limit	Without Limit	Without Limit
Operating System supported	Windows/ Linux	Windows /Unix/ Linux	Windows /Unix/ Linux	Windows /Unix/ Linux
64 bit support	No	Yes	Yes	Yes
Avaiability and scalability				
a. Real App Cluster	No	No	Yes	Yes
b. Active Data Guard	No	No	No	Yes
c. Golden Gate	Yes	Yes	Yes	Yes
Security: Data Encryption	No	No	No	No
Manageability: Automatic Database Diagnostic and Tuning	No	No	No	Yes

4.   Printer

Types of printer recommended are laser printer installed in each work unit of SPP users in the Participant. The number of printers shall be matched with the needs of the concerned Participant by considering among others the factors of transaction volumes of the Participant and the number of units SPP application users in the Participant.

BANK INDONESIA,

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